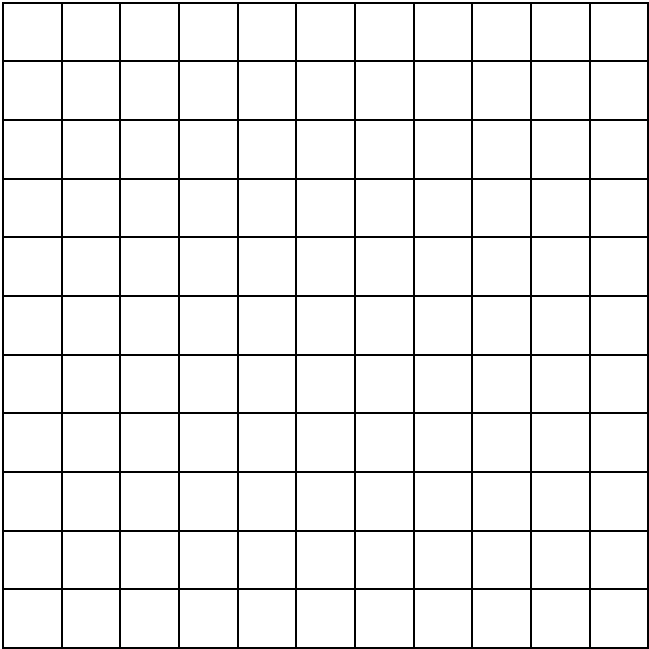


Student Activity 1: How Old?

Name	Guess (Age)	Actual (Age)

1. Sketch a graph of the data.



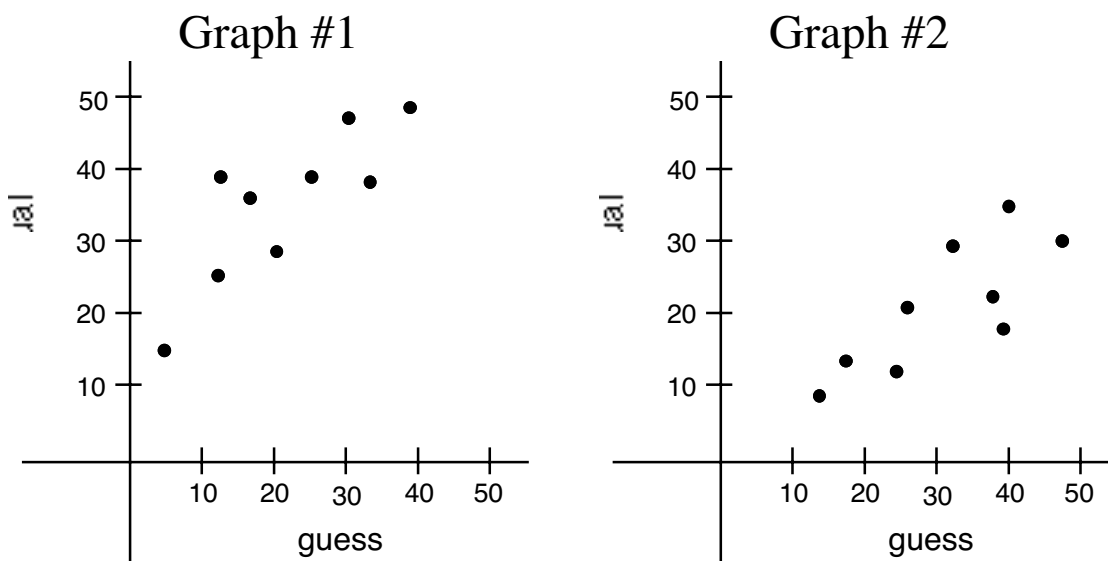
2. Using your data, create a scatter plot on your graphing calculator. Sketch it here.

3. Justify your viewing window choice.

4. Using your calculator, graph the “perfect-guess” line over the scatter plot.

5. Are you an “over-guesser” or an “under-guesser”? Explain.

Over or Under?

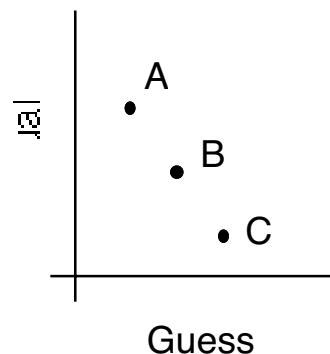


- For each graph above, sketch in the “perfect-guess” line, $\text{actual} = \text{guess}$, and label it.
- For graph #1, did the person over-guess or under-guess? Explain.
- For graph #2, did the person over-guess or under-guess? Explain.
- For each graph above, sketch a trend line for the data and label it “my trend”.
- Use your trend line on graph #1. If I guessed an age of 24, what is the actual age of the person?
(24, _____)
- Use your trend line on graph #1. If the person really was 36 years old, what did I probably guess? (_____, 36)
- On the back, create a scatter plot of a person who guessed really well. Label the axes.

Sample Assessment

1. Consider A and B. Whose age did you guess better? Why?

2. Did you overestimate or underestimate C's age?



3. How do you tell your graphing calculator to graph the best guess line, guess = actual ?

Your partner had the following guesses.

Name	Guess	Actual
Mr. Jackson	50	42
Ms. Chi	42	37
Mr. Beyer	45	40
Ms. Harris	40	28

4. Which would be a good viewing window for a scatter plot of the above data?

```

WINDOW
Xmin=-55
Xmax=55
Xscl=10
Ymin=-45
Ymax=45
Yscl=10
Xres=■
  
```

```

WINDOW
Xmin=-10
Xmax=10
Xscl=1
Ymin=-10
Ymax=10
Yscl=1
Xres=■
  
```

```

WINDOW
Xmin=0
Xmax=55
Xscl=10
Ymin=0
Ymax=45
Yscl=10
Xres=■
  
```

```

WINDOW
Xmin=-4.7
Xmax=4.7
Xscl=1
Ymin=-3.1
Ymax=3.1
Yscl=1
Xres=■
  
```

Your partner had the following guesses.

Name	Guess	Actual
Mr. King	37	42
Ms. Alcini	30	37
Mr. Golm	35	42
Ms. Cline	25	30

5. What would be a good viewing window for a scatter plot?
Explain each choice.

X_{\min} :

X_{\max} :

Y_{\min} :

Y_{\max} :